

10/619,898

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(FILE 'HOME' ENTERED AT 16:31:17 ON 31 JAN 2008)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 16:31:38 ON 31 JAN 2008

L1 745 S ALPHA-1(6A)CALCIUM(W)CHANNEL
 L2 267520 S (TRANSGEN? OR CHIMERIC) (6A) (ANIMAL OR MAMMAL OR MOUSE OR MICE
 L3 7 S L1 AND L2
 L4 5 DUP REM L3 (2 DUPLICATES REMOVED)

=> d au ti so pi 1-5 l4

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 IN Baron, Scott Phillip; Hidayetoglu, Debra Lynn; Johns, Margaret Ann;
 Offord, James David; Su, Ti-zhi
 TI Non-human mammals and animal cells carrying mutations in the
 $\alpha 2/81$ voltage-sensitive calcium channel genes
 SO PCT Int. Appl., 124 pp.
 CODEN: PIXXD2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004089072 | A2 | 20041021 | WO 2004-IB1187 | 20040405 |
| WO 2004089072 | A3 | 20041216 | | |
| WO 2004089072 | A8 | 20050217 | | |
| WO 2004089072 | A9 | 20051215 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1615493 | A2 | 20060118 | EP 2004-725751 | 20040405 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| JP 2006524049 | T | 20061026 | JP 2006-506487 | 20040405 |
| US 2005044581 | A1 | 20050224 | US 2004-823447 | 20040413 |
| US 2005144659 | A1 | 20050630 | US 2004-823432 | 20040413 |

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 IN Baron, Scott Phillip; Hidayetoglu, Debra Lynn; Offord, James David; Su, Ti-zhi
 TI Non-human mammals and animal cells carrying mutations in the
 $\alpha 2/8$ voltage-sensitive calcium channel genes
 SO PCT Int. Appl., 176 pp.
 CODEN: PIXXD2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004089071 | A1 | 20041021 | WO 2004-IB1110 | 20040412 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, | | | | |

TD, TG
 EP 1615494 A1 20060118 EP 2004-726877 20040412
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
 JP 2006522599 T 20061005 JP 2006-506459 20040412
 US 2005044581 A1 20050224 US 2004-823447 20040413
 US 2005144659 A1 20050630 US 2004-823432 20040413

L4 ANSWER 3 OF 5 MEDLINE on STN DUPLICATE 1
 AU Serikov V B; Petrashevskaya N N; Canning A M; Schwartz A
 TI Reduction of [Ca(2+)](i) restores uncoupled beta-adrenergic signaling in
 isolated perfused transgenic mouse hearts.
 SO Circulation research, (2001 Jan 19) Vol. 88, No. 1, pp. 9-11.
 Journal code: 0047103. E-ISSN: 1524-4571.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 IN Niitome, Tetsuhiro; Teramoto, Tetsuyuki; Murata, Yoshuki; Tanaka, Isao
 TI Transgenic BHK cells stably expressing cDNAs for types BI, BII, and BIII
 calcium channels
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 08009969 | A | 19960116 | JP 1994-149027 | 19940630 |

L4 ANSWER 5 OF 5 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
 STN
 AU YANEY G C (Reprint); WHEELER M B; WEI X Y; PEREZREYES E; BIRNBAUMER L;
 BOYD A E; MOSS L G
 TI CLONING OF A NOVEL ALPHA-1-SUBUNIT OF THE
 VOLTAGE-DEPENDENT CALCIUM-CHANNEL FROM THE BETA-CELL
 SO MOLECULAR ENDOCRINOLOGY, (DEC 1992) Vol. 6, No. 12, pp. 2143-2152.
 ISSN: 0888-8809.

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L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 AB Transgenic animal cells stably expressing subunits .
 alpha.1, alpha.2, and beta of calcium
 channels types BI, BII, and BIII , resp., are given. BHK cells
 were co-transfected with plasmids pK4kBI (encoding .alpha.
 1 subunit of rabbit calcium channel type BI),
 pCAA2 (encoding skeletal muscle alpha.2 subunit of rabbit calcium
 channel), and pCAB2 (encoding skeletal muscle beta.2 subunit of rabbit
 calcium channel) and the clones expressing type BI calcium channel and the
 marker dihydrofolate reductase (DHFR) gene were selected. The transformed
 cells were used for the pharmacol. studies of the effects of calcium
 antagonists on Ca2+ currents.

L4 ANSWER 5 OF 5 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on
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 AB To study the molecular regulation of voltage-dependent Ca 2+ channels
 (VDCCs) in the beta-cell, we have cloned a cDNA for the alpha1-subunit
 from a hamster insulin-secreting cell line (HIT-T15). The cDNA (HCa3a)
 encodes a 1610-amino acid protein with four repeating membrane domains and
 an overall structure characteristic of other alpha1-subunits. Although
 the cDNA shows a high degree of sequence homology (97%) with a rat brain
 alpha1-subunit (RBalpha1), the C-terminal 15 amino acids of HCa3a share no
 similarity with any cloned alpha1 protein. High stringency Northern blot
 analysis revealed a single transcript of approximately 8.6 kilobases in
 HIT cells and hamster pancreas. A similarly sized species was detected in
 hamster brain, heart, and skeletal muscle. Using polymerase chain
 reaction and a primer set unique to HCa3a, this alpha1 isoform was found

to be expressed in islet cell lines derived from rat, mouse, and hamster. The HIT cell alpha1-subunit is also expressed in discrete regions of the rat central nervous system, including the cortex, cerebellum, hypothalamus, and brain stem. The expression of two alpha1 isoforms (HCa3a and cardiac) in the HIT cell underscores the possible complexity of VDCCs in the regulation of beta-cell signal transduction. With its widespread tissue distribution, HCa3a does not conform to the current classification system used for L-type VDCCs; this suggests that an alternative system of classification is required.

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 IBM Technical Disclosure Bulletins

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|--|---|----------------------------|---|
| <i>DB=PGPB, USPT; PLUR=YES; OP=AND</i> | | | |
| <u>L4</u> | l2 and L3 | 4 | <u>L4</u> |
| <u>L3</u> | (transgen\$ or chimeric) near6 (animal or mammal or mouse or mice or rat or sheep or rabbit or pig) | 49063 | <u>L3</u> |
| <u>L2</u> | alpha-1 near9 calcium adj channel | 35 | <u>L2</u> |
| <u>L1</u> | alpha-1 near6 calcium adj channel | 18 | <u>L1</u> |

END OF SEARCH HISTORY

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- ☐ 1. [20050221311](#). 07 Apr 05. 06 Oct 05. Isolated human transporter proteins nucleic acid molecules encoding human transporter proteins and used thereof. Gan, Weiniu, et al. 435/6; 435/320.1 435/325 435/69.1 530/350 530/388.22 536/23.5 C12Q001/68 C07H021/04 C12N015/09 C07K014/705 C07K016/28.
-
- ☐ 2. [20040214238](#). 15 Dec 03. 28 Oct 04. Nociceptive neuron specific calcium channel isoform and uses thereof. Lipscombe, Diane, et al. 435/7.2; 435/368 530/350 G01N033/53 G01N033/567 C12N005/08 C07K014/705.
-
- ☐ 3. [20040091497](#). 10 Nov 03. 13 May 04. Schizophrenia-related voltage-gated ion channel gene and protein. Cohen, Daniel, et al. 424/185.1; 435/320.1 435/325 435/6 435/69.1 530/350 536/23.5 800/8 C12Q001/68 A01K067/00 C07H021/04 A61K039/00 C07K014/705.
-
- ☐ 4. [7041475](#). 20 Dec 01; 09 May 06. Purified and isolated platelet calcium channel nucleic acids. Malouf, Nadia, et al. 435/69.1; 435/320.1 435/325 530/350 536/23.1 536/23.5. C07H21/04 20060101 C07K14/00 20060101 C12N15/00 20060101 C12N15/12 20060101 C12N15/63 20060101 .
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